

Title (en)
Zeolitic reforming catalyst and method of producing the same.

Title (de)
Zeolitischer Reformierkatalysator und Verfahren zu seiner Herstellung.

Title (fr)
Catalyseur de réformage zéolitique et sa méthode de production.

Publication
EP 0198721 A2 19861022 (EN)

Application
EP 86302858 A 19860416

Priority
US 72414685 A 19850417

Abstract (en)
A highly active and selective zeolitic reforming catalyst comprises a large pore zeolite containing platinum metal and at least one promoter metal selected from iron, cobalt and titanium, the catalyst having a platinum to promoter metal mole ratio of less than 10:1. In one embodiment a type L zeolite is formed by combining an aqueous solution of potassium hydroxide, aluminum hydroxide, and ferric nitrate with an aqueous solution of silica to form a thickening gel in a mother liquor; heating the thickening gel to form a type L zeolite; cooling the solution containing the type L zeolite; decanting the mother liquor from the gel; filtering the type L zeolite from the gel; washing the filtered type L zeolite so that the pH of the wash is about 10.5; and drying the washed type L zeolite. The catalyst is formed by adding platinum to the dried type L zeolite by pore fill impregnation with an aqueous solution of Pt(NH₃)₄(NO₃)₂ to form a catalyst; drying the catalyst and then calcining the dried catalyst.

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